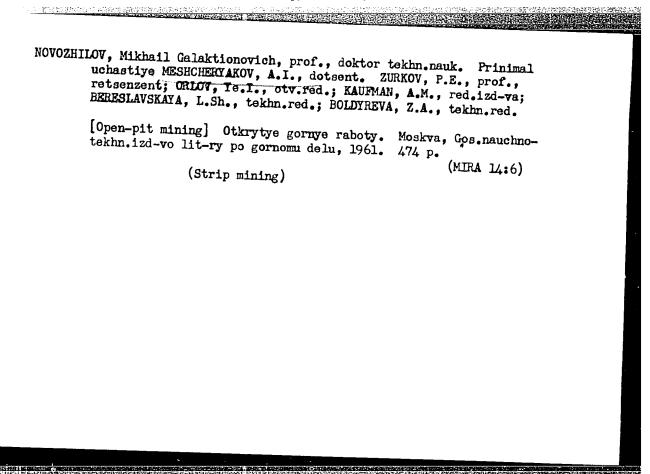
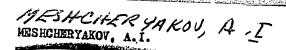
MESHCHERYAKOV, Aleksey Il'ich; FEYGIN, L.M., otv. red.; ABARBARCHUK, F. I., red. izd-va; BOLDYREVA, Z.A., tekhn. red.

[Crosscutting and boring machines and the tool] Sboechno-burovye mashiny i instrument. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry pogornomu delu, 1961. 76 p., (NIRA 14:11)

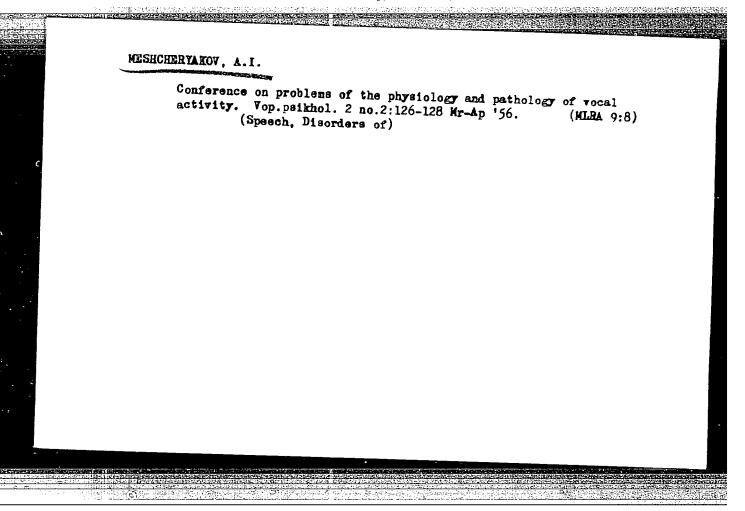
(Boring machinery)

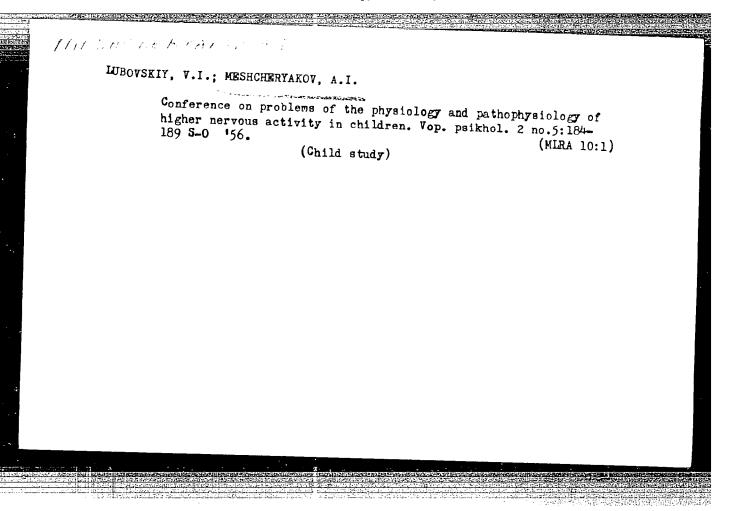


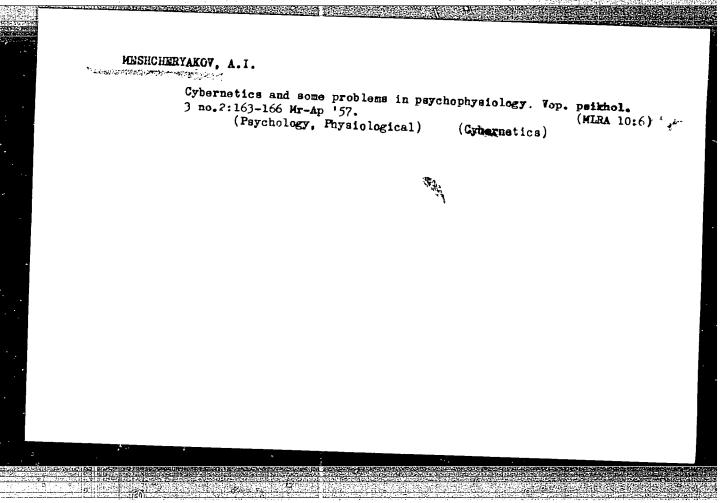


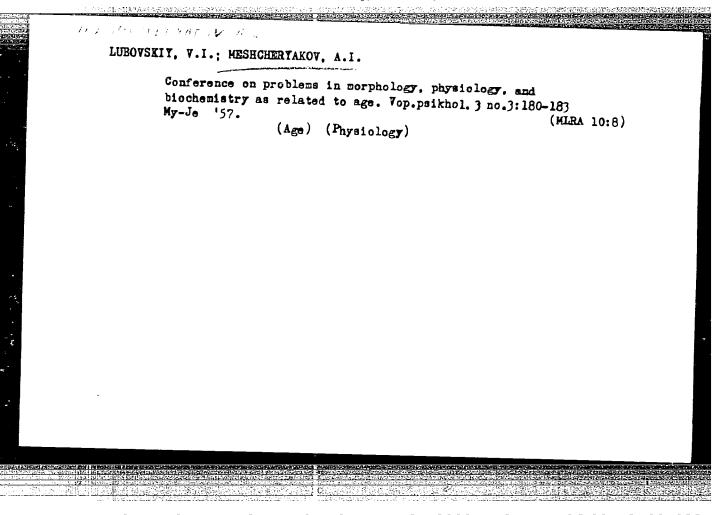
Method of higher nervous function tests in man. Zhur. vys.nerv. deiat. 4 no.4:574-580 J1-Ag 154. (MIRA 8:3)

1. Otdel patofiziologicheskogo i klinicheskogo izucheniya uchashchikhsya spetsial'nykh shkol Instituta defektologii APN RSFSR. (CENTRAL NERVCUS SYSTEM, physiology higher nervous funct. tests in man, technic)









LURIYA, A.R.; PEVZNER, M.S.; ZISLINA, N.N.; VINOGRADOVA, O.S.; LUBOVSKIY, V.I.; MESHCHERYAKOV, A.I.; MATYUSHKIN, A.M., red.; LAUT, V.G., tekhn.red.

[Retarded children; studies on characteristics of the higher nervous activity of oligophrenic children] Umstvenno otstalyi rebenok; ocherki izucheniia osobennostei vysshei nervnoi deiatel'nosti detei-oligofrenov. Pod red. A.R.Luriia. Moskva, 1960. 201 p. (MIRA 13:10)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut defektologii.

(MENTALLY HANDICAPPED CHILDREN)

MESHCHERYAKOV, A.I.

Some problems of image in connection with the peculiarities of the mental development of the blind deaf-mute child. Vop. psikhol. 6 no.4:111-120 Jl-Ar. '60. (MIRA 13:9)

l. Institut defektologii Akademii pedagogicheskikh nauk RSFSR, Moskva.

(Deaf-Education) (Orientation)
(Blind-Education)

WESHCHER YAKOV, A.M.

Using thiccarbamide in the colorimetric determination of phosphoric acid. Pochvovedenie no.3:88-90 Kr '56. (MLRA 9:8)

1. Tadzhikskiy sel'skokhozyaystvennyy institut, Kafedra agrokhimii i pochvovedeniya, Stalinabad.

(Soils-Analysis) (Phosphoric acid) (Urea)

MESHCHERYAKOV, A. H.

Meshcheryakov, A. H. "On the aratims of the fill statement," Trudy Haranst. Pos. Heringta, 1918, Issue 1, 1948, p. 153-70--bibliog: 25 items.

SC: U-3264, 16 April 1953, (Letopis 'Churnal 'nykh Statey, No. 3, 1949)

- 1. MESHCHERYAKOV A. M., MURAT, A. H.
- 2. USSR (600)
- 4. Nervous System, Sympathetic
- 7. Pterygopelatine ganglion. Arkhiv anat.gist. i embr. 29 No 5. 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

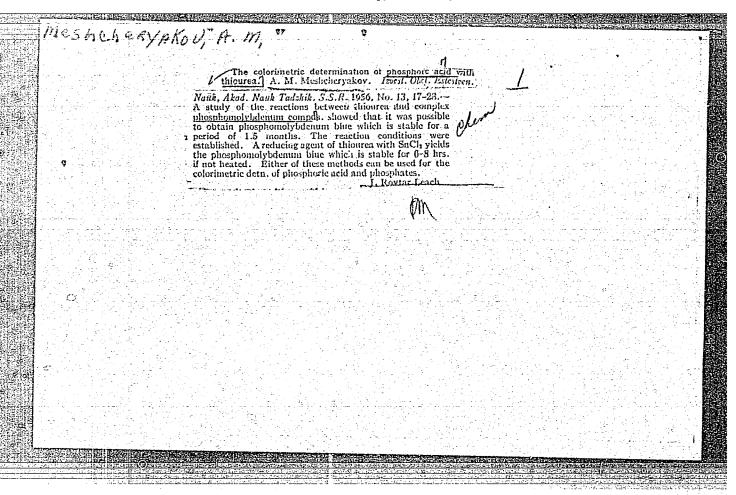
MESHCHERYAKOV, A.M.; SYSAK, N.S.

Discussion on F. A. Volynskii's and E. P. Melman's article Symapses of certain abdominal organs. Arkh. anat., Moskva 30 no.2:94-95 Mar-Apr 1953. (CIML 24:3)

MESHCHERYAKOV, A.M.; KOROTKOV, A.G.

Role of the posterior spinal radices in innervation of the gastrointestinal system. Fiziol. zh. SSSR 39 no.4:443-450 July-Aug 1953. (CIML 25:1)

1. Department of Human Anatomy and Department of Physiology of Kazan' State Medical Institute.



MESHCHERYAKOV, A.M.

Method for the colorimetric determination of molybdenum. Izv. Otd. est. nauk AN Tadzh.SSR no. 17:3-15 '56. (MIRA 11:8)

Kafedra agrokhimii i pochvovedeniya Tadzhikskogo sel'khozinstituta.
 (Molyhdenum--Analysis)
 (Colorimetry)

USSR / Human and Animal imorphology - Nervous System.

B

Abs Jour : Ref. Zhur. - Biol., No. 22, 1958, 101481

Author

: Meshcheryakov, A. M. ; Korotkov, A. G.

Inst

: Kazan Medical Institute

Title

: Experimental Morphological Materials Toward the Study of the Sources of Innervation of the Ductus

Deferens.

Orig Pub

: Sb. nauchn. rabot, Kazansk. med. in-t, 1957, No.

4, 60-69

Abstract : In 55 cats and dogs the hypogastric and pudendal nerves were transected, along with the anterior roots of the sacral division of the spinal cord, the ductus deferens (DD), and the internal spermatic artery. In addition, the ganglia of the sacral division of the truncus sympathicus were removed, as well as the pelvic plexus and the

Card 1/3

USSP. / Human and Animal Morphology - Nervous System.

S

Abs Jour : Ref. Zhur. - Biol., No. 22, 1958, No. 101481

ganglia of the celiac plexus. It was aboun that the DD has both a sympathetic and a parasympathetic innervation. The sympathetic nerves (SN) reach the DD through the hypogastric nerves, the internal spermatic plexus, and from ganglia of the lumbar and sacral divisions of the sympathetic trunk. The SN supply the DD as either independent nerve bundles or separate fibers, or via bundles of nerve fibers of other origin. In the pelvic plexus the SN are not interrupted but pass through it and proceed to the smooth muscle layer of the wall of the DD. Parasympathetic fibers pass to the DD through the anterior roots of the spinal nerves and course with the pelvic parasympathetic nerves and the pudendal nerve. These fibers, as preganglionic fibers, are interrupted

Card 2/3

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APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001033

USSR / Human and Animal Morphology - Nervous System.

S

Abs Jour : Ref. Zhur. - Biol., No. 22, 1958, No. 101481

in the cells of the ganglia of the pelvic plexus, the processes of which, in the form of fibers, extend to the wall of the DD. In the wall of the DD there are multipolar nerve cells. No distinct differences in the innervation of the DD were noticed between cats and dogs.

USSR / Human and Animal Morphology - Nervous System.

S

Abs Jour : Ref. Zhur. - Biol., No. 22, 1958, No. 101478

Author

: Meshcheryakov, A. M.

Inst Title : Kazan Medical Institute : Experimental Morphological Analysis of the

Structure of the Pudendal Nerve and the Inter-Relations Between It and the Vegeative Nervous

Plexus of the Pelvis.

Orig Pub

: Sb. nauchn. rabot. Kazansk. med. in-t, 1957, No.

4, 116-124.

Abstract

: In 150 preparations from 100 cadavers of persons of varying ages (beginning in the embryonic stage) and in 35 preparations from cadavers of dogs, cats, monkeys, sheep, horses, cows, and pigs, it was shown that the pudendal nerve (PN) is a complex nerve, consisting, in addition to

Card 1/2

Card 2/2

25

Mr. Hand . There . A de

USSP / Human and Animal Morphology, Normal and Pathology and

: R Zh Fible, to 21, 1950, No 97068 Dervous System. abs Jour

Author

: Meshcheryakov, A.L.

Inst Title : Experimental - orphologic Analysis of the Structure of nn. Erigentes and Their Participation in the Formation of Nerve

Plexuses of the abdominal Cavity and Pelvis.

Oris Pub

: Sb. nauchn. ratot Kazansk. med. in-t, 1967, vyp. h,105-115

Abstract

: In three series of experiments on 50 cats, the nerves of the pelvis in the cavity of the small pelvis, or all anterior sacral racices of the spinal cord inside the mertebral canal, or all noces of the marginal sympathetic tonk of the sacral region on ot. sides, were cut. After 24-76 hours, the material was studied, following impregnation, according to Pil'shovskiy-ros-Lavrent'yev. The author concludes that

Card 1/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00103 Nervous System. r : R Zh Bicl., No 21, 1958, No 97068 Abs Jour

sensory (somatic), sympathetic (SN) and parasimpathetic/(PN) participate in pelvic plexus (PP). SII from formations of hypogastric plexuses and of nodes of the marginal sympathetic trunk of the sacral region are postganglionic; they run through P? without interruption, and end in the smooth muscles of the pelvic organs. PM, starting in the parasympathetic nucleus of the spinal cord, pass through formations of 2-4 anterior sacral radicles, and enter into pudental and pelvic nerves. PV, running through the formation of the nudental nerve, enter into PP and end there with a per cellular apparatus on the cells of PP nodes. PH, which run through the formation of the pelvic nerves, pass through into the cavity of the small pelvis and, with one of their parts, end on the cells or nodes of the extramural p rt of PP, and with the other - on the cells of the intramural part of PP; their third part runs to the nodes of mesenteric plexuses.

USSR / Human and Animal Morphology (Normal and S Pathological). Nervous System. Peripheral Nervous System. Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 16953 Author : Meshcheryakov, A. M. Inst : Not given Title : Comparative Anatomy of Inferior Mesenteric and Superior Hypogastric Plexuses of Man and Some Vertebrates : V sb.: Izbr. vopr. morfol. nervn. sistemy i Orig Pub krovosnabzh. nervov. Chelyabinsk, 1958, 51-57 : On the cadavers of 10 humans, 6 sea urchins, 2 carassius, 4 pikes, 10 frogs, 10 lizards, Abstract 7 wild ducks, 3 chickens, 2 susliks, 2 rabbits,

Card 1/4

55

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001033

4 guinea pigs, 10 cats and 10 dogs, it was shown that the inferior mesenteric (IM) and

USSR / Human and Animal Morphology (Normal and Pathological). Nervous System. Peripheral Nervous System.

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 16953

> superior hypogastric plexuses (SHP) in man and animals originate from the inferior mesenteric ganglion (IG), aortic plexus (AP) and others. IG in man consists of 1-5 separate nodules, in other mammals of 1-4, and in lower vertebrates it is not always found. By means of visceral branches I3 is connected with the 1-3rd lumbar ganglia of the sympathetic trunk and through the AP it is connected with solar, superior mesenteric, kidney and adrenal plexuses. SHP in man lies on the ventral surface of the abdominal aorta; it consists of nodules of various size and form. In cats, dogs, guinea pigs and

Card 2/4

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

USSR / Human and Animal Morphology (Normal and Pathological). Nervous System. Peripheral Nervous System.

S

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 16953

others, instead of SHP there are hypogastric nerves which originate from the caudal-mesenteric ganglion. In fish, amphibians, reptiles and birds these nerves are still not differentiated and are in direct connection with blood vessels. From IG and AP, branches run to the inferior mesenteric artery, forming on it the plexus of the same name. Secondary plexuses, which originate as a result of division of the inferior mesenteric plexus, are in turn divided into smaller plexuses. In cats, dogs, guinea pigs and others the left colic, S-shaped and superior rectal plexuses are not

Card 3/4

56

USSR / Human and Animal Morphology (Normal and Pathological). Nervous System. Peripheral Nervous System.

3

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 16967

Author Inst : Meshcheryakov, A. M.

: Not given

The transfer of the second second

Title : Pa

: Participation of nn. Erigentes in the Formation of Nerve Plexuses of the Pelvis

and Abdominal Cavity

Orig Pub

: V sb.: Izbr. vopr. morfol. nervn. sistemy i krovosnabzh. nervov. Cgelyabinsk, 1958, 5-15

Abstract

: In three series of experiments on 50 cats, either pelvic nerves in the cavity of the small pelvis, or all anterior spinal-cord sacral roots or all ganglia of the sacral region of the marginal sympathetic trunk (MST)

Card 1/3

Pathological). Nervous System. Peripheral

APPROVED FORVRELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001033

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 16967

were sectioned. It was shown that somatic, sympathetic and parasympathetic nerves (PN) participate in the pelvic plexus (P). Sympathetic nerves from the hypogastric P and from the ganglia of MST are postganglionic and pass through the pelvic P without interruption. PN of the sacral section, beginning from the parasympathetic nucleus of the spinal cord, pass in the make-up of 2-4 anterior sacral roots and enter into nn. erigentes and n. pudendus. The parasympathetic fibers, which run in the make-up of the pudendal nerve, enter the pelvic P and terminate on the cells of its ganglia. PN which run in

Card 2/3

USSR/Human and Animal Morphology - (Normal and Pathological)

Nervous System. Peripheral Hervous System.

Abs Jour : Ref Zhur Biol., No 6, 1959, 26106

Author Meshcheryakov, A.M.

Inst

Title : On the Problem of Parasympathetic Nerves of the Sacral

Region. Report 2.

Orig Pub : V sb.: Izbr. vopr. morfol. nervn. sistemy i krovosmabzh.

nervov. Chelyabinsk, 1958, 15-22

Abstract It was shown on cadavers of 100 humans (50 adelts, 40

children, 10 embryos), 6 dogs, 4 monkeys, 5 sheep, 8 horses, 2 cows, 2 pigs and 8 cats that pudental nerve (PN), aside from somatic, contains also sympathetic and parasympathetic fibers which participate in the formation of pelvic plexus (PP). Sympathetic fibers enter into the composition of PN in the region of the small

pelvic from the nodes of the sacral region of the

Card 1/2

- 18 -

CIA-RDP86-00513R001033

MESHCHERYAKOV, A.M.; KOROTKOV, A.G. Valarii Nikolaevich Murat; on his 60th birthday. Arkh.anat.gist.i (MIRA 14:5) embr. 39 no.11:128 N '60. (MURAT, VALERII NIKOLAEVICH, 1900-)

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

MESHCHERYAKOV, A.M.

Importance of the ratio between acid and the molybdate anions in colorimetric determination of phosphorus. Pochvovedenie no. 2: 75-80 F *65 (MTRA 19:1)

1. Tadzhikskiy sel†skokhozyaystvennyy institut, Dushanbe. Submitted August 1, 1963.

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MESHCHERYAKOV, A.N.

Antagonian Netween bromides and morphine. Farm. i toks. 19 no.5:
22-24 S-0'56.

1. Kafedra farmakologii (zav. - prof. A.K.Sangaylo) Sverdlovskogo
meditsinskogo instituta.

(HORPHINE, antagonists,
bromides (Rus))

(BROWIDES, antagonists,
morphine (Rus))
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MESHCHERYAKOV, A. N.

"Rejair of Damaged Concrete by the Method of Cementation," Gidrotekhnicheskoye Stroitelstvo, Goscow, 1947.

GANICHEV, I.A., inzh.; MESHCHERYAKOV, A.N., inzh.; KHEYFETS, V.B.

New methods of making antiseepage curtains. Gidr.stroi.31 no.2:14-18
F '61. (MIRA 14:3)

(Soil percolation) (Grouting)

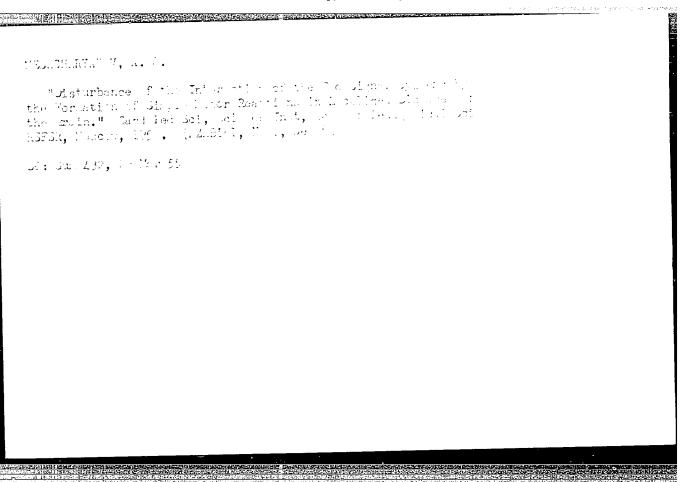
APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001033

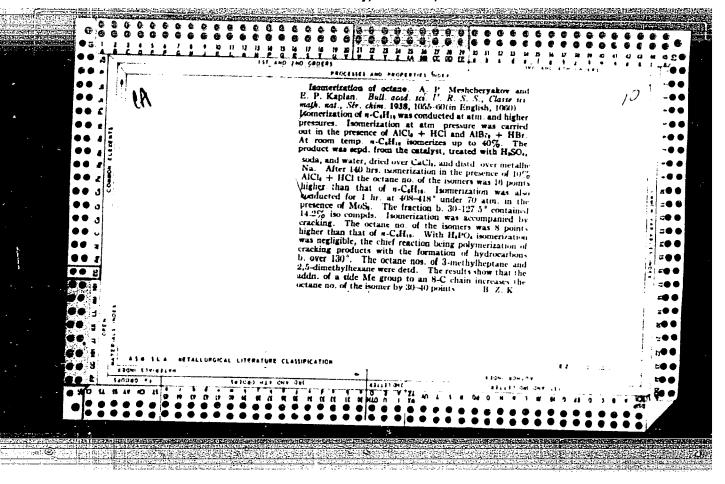
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MESHCHERYAKOV, A.N., inzh.

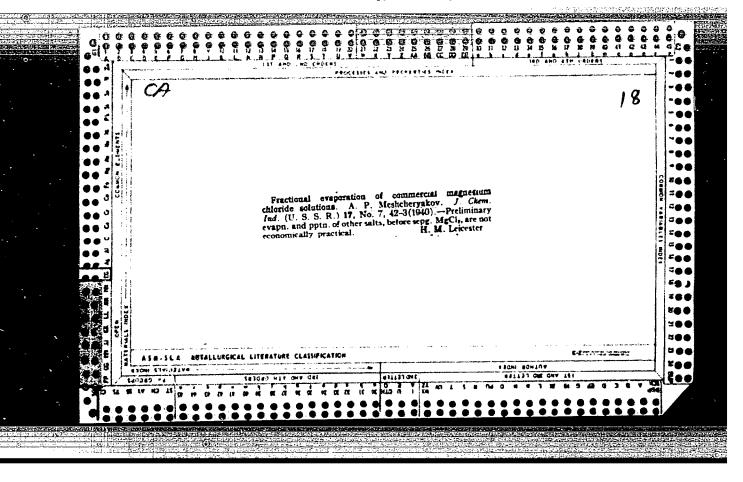
Cylindrical enclosure for the underwater repair of wicket gates of draft tubes of the Dnieper Hydroelectric Power Station. Energ. stroi. no.27:58-60 '62. (MIRA 15:9)

1. Trest "Gidrospetsstroy". (Dnieper Hydroelectric Power Station—Maintenance and repair)

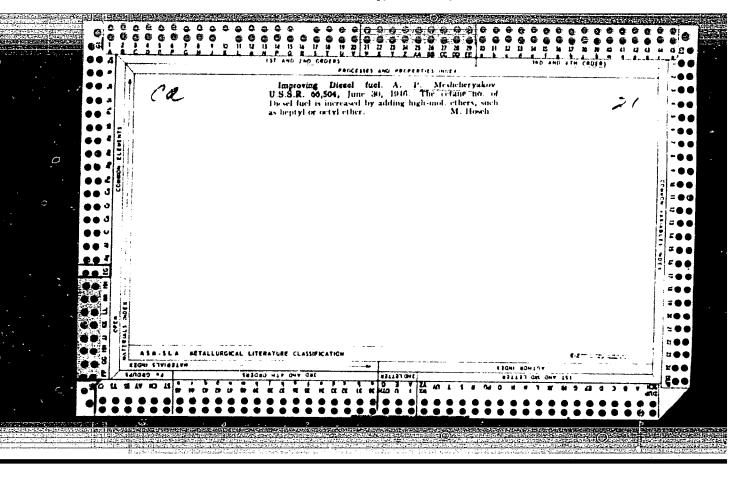


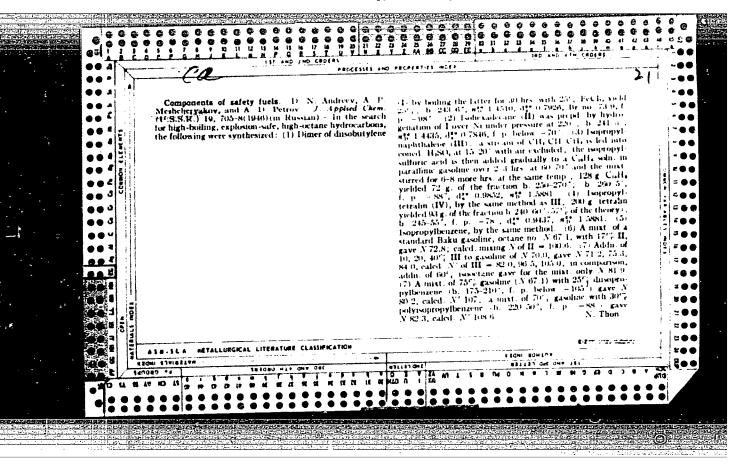


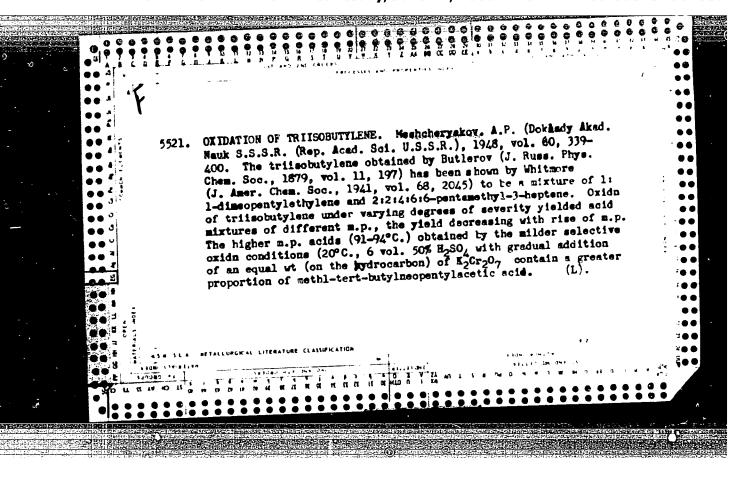
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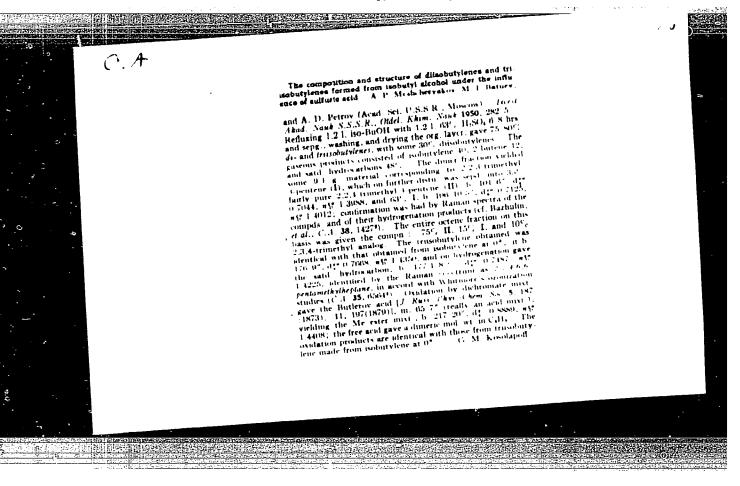


USSR/Chemistry - Tri-isobutylene Apr 1948
Chemistry - Oxidation
"The Oxidation of Tri-isobutylene," A. P. Meshcheryakov, 2 pp
"Dok Ak Nauk SSSR" Vol LX, No 3

Discovery of new method for oxidation of tri-isobutylene permits a selective oxidization of isomers for purpose of obtaining mixtures of acid with not readily accessible methyl-tributylneopentilacetic acid. Submitted by Acad A. N. Resmeyanov 24 Feb 1948.

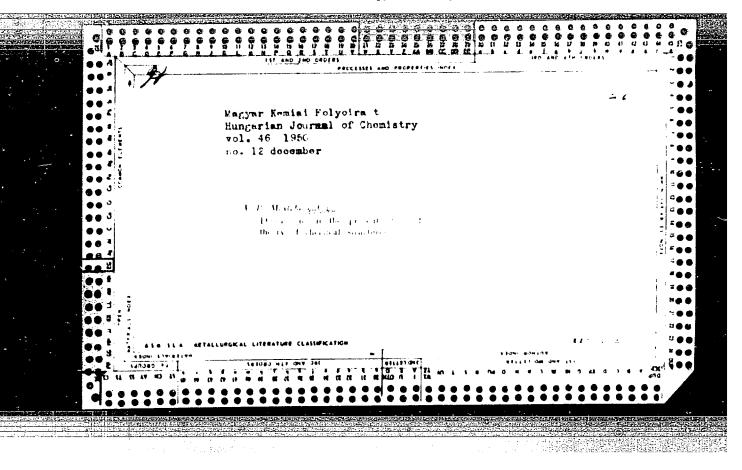
"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033



USSR/Physics - Combination Scattering Chemistry - Organic Corneum? Agr 50
"Study of the Degree of Existion of Gertain Alcohols and Thenols by the Method of Combination Scattering of Light," M. I. Betuyev, A. F. Meshcheryakov, A. T. Marveyeva, Inst of Org Chem, Acad Sci USSR, 5 ;;
"Thur Eksper i Teoret Fiz" Vol XX, No 4
Shows by subject method that increase in termes of oxidation of CD group in a series of alcohols (pentamethyl ethanol, phenol, trichlorodinethyl ethanol, it in complete agricment with chamical data. Submitted 2 Jan 50.

FA 1:9796



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NESHOH RYAKCY, A. P.

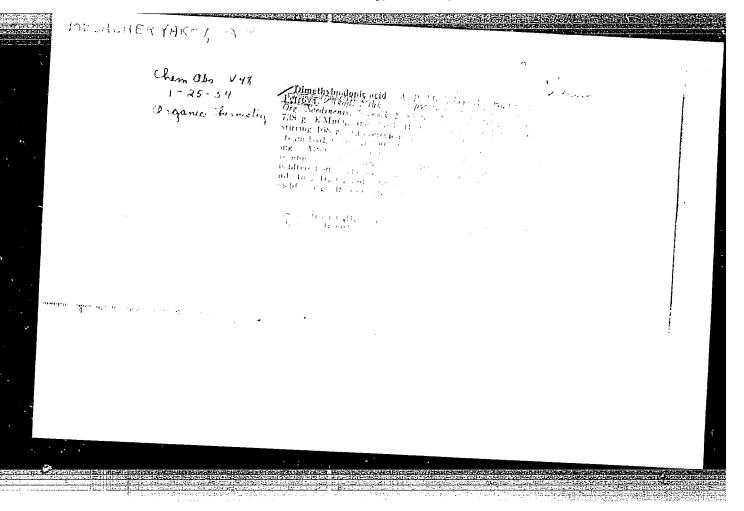
"The life and work of Nikolai alexandrovich Frilezhaev." Akhrem, A. a.,
Rrilezhaeva, E. M. and Meshcheryakov, A. P. (p. 1925)

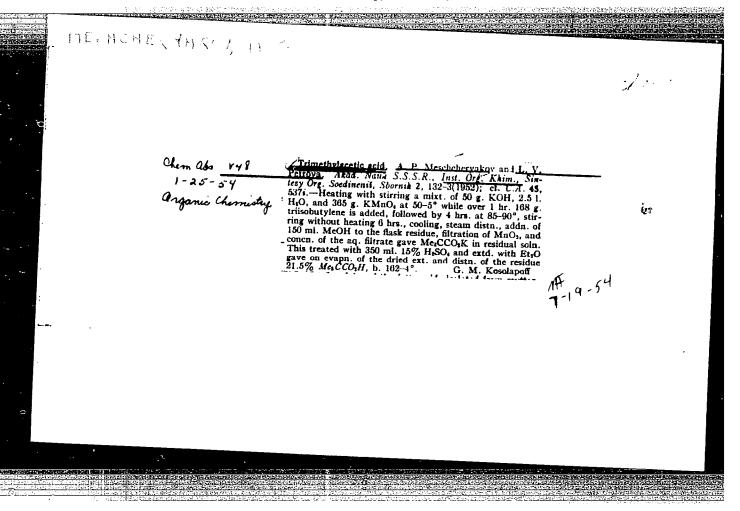
SG: Journal of General Shemistry (2) arnul Coshchef Khimii) 1931, 761 21, We 11.

MESHCHERYAKOV, A.P.; PETROVA, L.V.

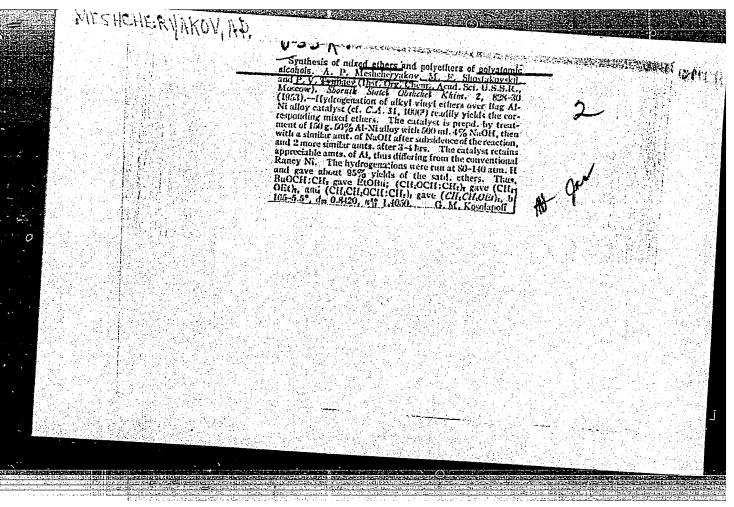
Cleavage of the elements of hydrogen halides from monohalides of hydro-

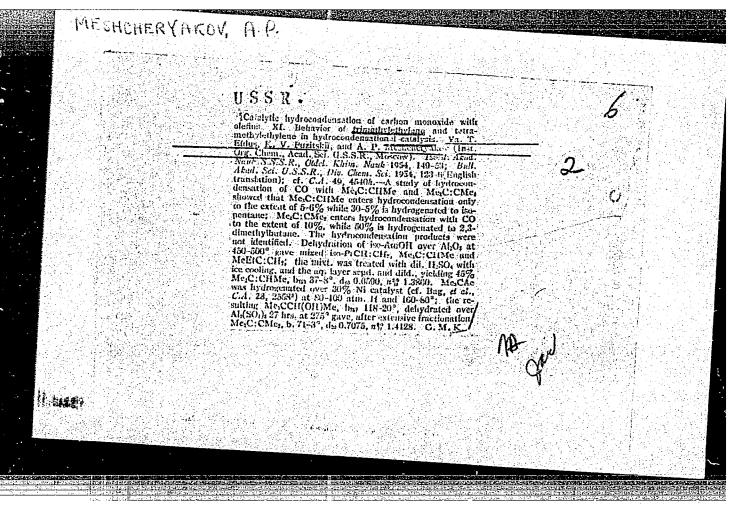
carbons of the $C_{\rm pH_{2n+2}}$ aeries. Bull. Acad. Sci. U.S.S.R., Div. Chem. Sci. '52, 165-9 [Engl. translation]. (CA 47 no.19:9896 '53)

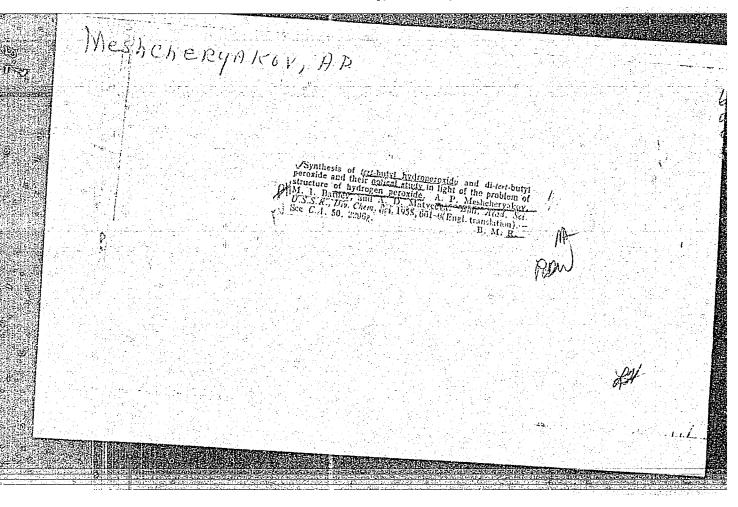


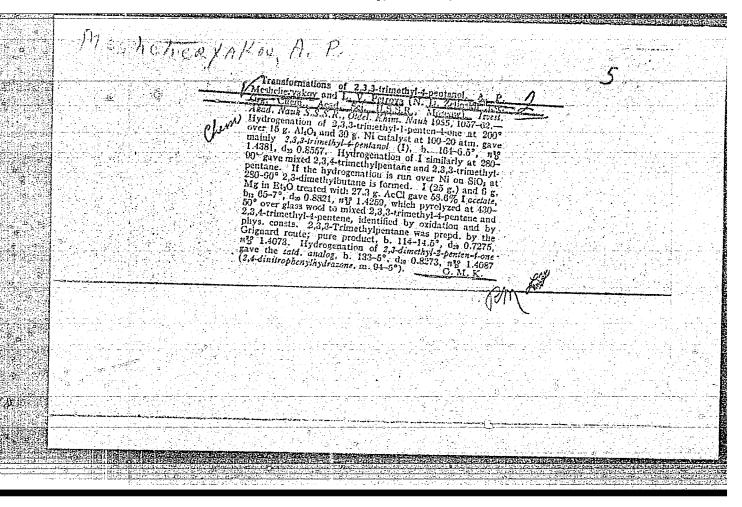


<u>16</u>	MESHCHERYAKOV, A.P.
yield	of the synthesis of 2,2,3,3-tetramethylhexene-5, it was shown that using an alkyl halide with a double bond in the beta position does not increase the ylof hydrocarbons containing; 2 rows of quaternary carbon atoms.
th the	2-chloro-2, 3, 3-trimethylbutane and 3-chloro-3, 4, 4-trimethylpentane are comparatively unreactive in the Srignard-Whertz synthesis leading to hydrocarbons with 2 quaternary carbon atoms. 2,2,2,-Trimethyl-3-ethylpentane, 2,2,3,3-tetramethylpentane, 2,2,3,3,5-tetramethylbexene-5 pentamethylhexane, and 2,2,3,3,-tetramethylbexene-5 were synthesized and characterized. On the example 224716
	"Dok Ak Nauk SSSR" Vol LXXXV, No 1, pp 111-113
-C11 yakov,	"Synthesis of Hydrocarbons of the Composition C10-C11 With Two Quaternary Carbon Atoms," A. P. Meshcheryakov Ye. I. Erzyutova, A. D. Petrov, Corr Mem, Acad Sci USSR
10 	USSR/Chemistry - Hydrocarbons I Jul 52
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MESHCHERYHKCY,AP B - 4USSR / Physical Chemistry. Molecules. Chemical Bond : Ref Zhur - Khimiya, No 8, 1957, 25790 Abs Jour : A.P. Meshcheryakov, M.I. Batuyev, A.D. Matveyeva. Author ! Academy of Sciences of USSR : Synthesis of Tertiary Butyl Hydroperoxide and Ditertiary Inst Butyl Peroxide and Their Optical Study in Light of Ques-Title tion of Hydrogen Peroxide Structure. : Izv. AN SSSR, Otd. khim. n., 1955, No 4, 742-749

Orig Pub

: Tertiary butyl hydroperoxide (I) and ditertiary butyl 'ydroperoxide (II) were prepared by alkylation of 1 mol of Abstract 27% $\rm H_2O_2$ with 2 mols of monotertiary butyl sulfuric acid (III) at 0 to 10° in the duration of 4 to 5 hours; the yield was 80%. II is separated from I by the treatment with a 10 to 20% NaOH solution at 0 to 10°. III is prepared by the absorption of isobutylene by the 63% H SQ at 0 to 200. Spectra of combined scattering of I and II are

- 33 -: 1/2 Carc

CIA-RDP86-00513R001033 APPROVED FOR RELEASE: Wednesday, June 21, 2000

MESHEHERYAKOV, A.P.

USSR/Chemistry - Organic chemistry

Card 1/1

Pub. 22 - 22/45

Authors

! Mashcheryakov, A. P., and Petrova, L. V.

Title

* Reaction of dichloroanhydrides of dibasic acids with alkenes in the presence of zinc chloride

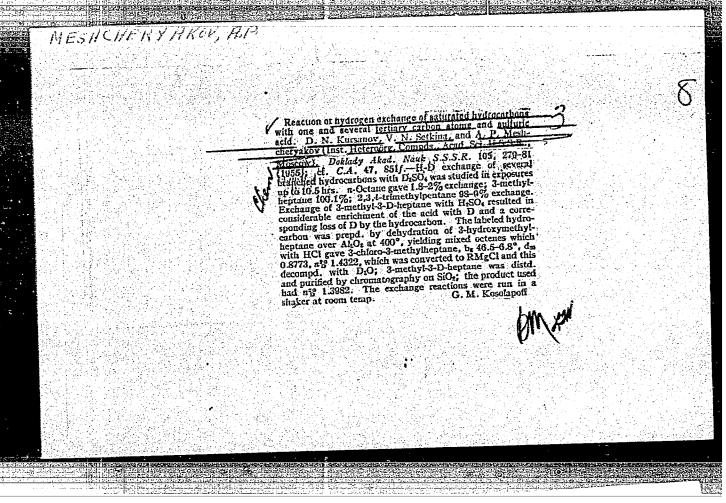
Periodical : Dok. AN SSSR 103/2, 253-255, Jul 11, 1955

Abstract

. The phenomena observed during the reaction of alkenes with dichlorosubydrides of dibasic acids are described. The existence of two functional groups in the anhydrides are explained as the cause for the two stages of the reaction. The chlorketo acid formed in the first stage reacts in the second stage with the second alkene molecule thus producing dichloroketone. The separation of HCl from the chloroketo acid and dichloroketone leads to the formation of keto acid and diketone. Eight references: 7 Russ. and USSR and 1 French (1869-1953).

Institution : Acad. of Sc., USSR, Inst. of Org. Chem. im. N. D. Zelinskiy

Presented by : Academician I. N. Nazarov, February 5, 1955



MESHCHERYAKOV, A.

USSE/ Chemistry - Alkylation processes

Card 1/1

Pub. 40 - 13/25

Authors

Meshcheryakov, A. P.; Erzyutova, Ye. I.; and Petrov, A. D.

Title

* Low temperature alkylation of alpha, and beta-olefins with tertiary alkyl halides in the presence of ZnCl,

Periodical :

Izv. AN SSSR. Otd. khim. nauk 1, 67-73, Jan 1956

Abstract

Low temperature alkylation of olefins with tertiary alkyl halides was investigated in the presence of zinc chloride and an explanation is given on the relation between the structure of the components and the nature of side reactions of isomeric conversions followed by the addition of chloroalkanes to alkenes. The isomeric octenes and decenes formed during butene-2 alkylation with tertiary butyl chloride or 2-chloro-2, 3-dimethylbutane, are described. The derivation of 4,4-dipropyldecene-5 (hydrocarbon with quaternary carbon) as an octene alkylation product is discussed. Eighteen references: 11 Russ and USSR, 4 USA, 1 Eng. and 2 Germ. (1869-1952). Table.

Institution: Acad. of Sc., USSR, Inst. of Organ. Chem. im. N. D. Zelinskiy.

Submitted

: March 15, 1955

APPROVED FOR RELEASE; Wednesday, June 21, 2000 CIA-RDP86-00513R00103

Batuyev, M. 1., entropergarov, A. P., atveyeva, A.D., 62-1-13/29

AUNTOBE: TITL :

Optical Investigation of to Otrusture of the Lower & Lower & Or Isocutylene (Orticherhoje issled.vall, e stroyeniya nisaniku is-

limerov iz butilena)

PERIOLICAL:

Izvestiya Ah abbu Otdeleniye . 1.11. wikh hata, 1950, ar 1, pp 15 - 84 (JSSA)

ABFLACT:

The inclimation of icobatylene for polymerization found for the first time by Butler, 7 was investigated already by himself inc described in a series of papers. This was also done by Washer, Prilezhayev. Elitek v and etc. rs. The results of thechemical and oftical investorition of the structure of the polymers of isobatylene hitaarti jubliches turned out to be centradicting. In the present gaper the purnoisence (as to the enemical and optical abjects) in the question as at the isomers prevailing in the corresponding fractions is pointed out. Definning with the fraction of the trimer they are inactive as regards further polynerization. In active forms take part in the formation of highest polymers and do not about ate in the lowest stages of polymerization. Farthermore it was explained that the assumption concerning a condition d double phenomen r (or a double) in the fiels of the frequency of double binding in lowest polymers (by

Carc 1/2

Option: The structure of the Longraphies of Isopat- 52-413/29 plane

inversion ischarist; does not correspond to the facts formulae (1) to (AVI). There are 1 table, and 10 references, 11 of which are Playic.

W. 1011 110 - 4.10.

AUDI DIALIUM. Institute of Mineral Fuels, AS USSR (Institut Foryuchikh

iskojaje gita ikuse ir nauk 2000)

SJB_ITTED: July 27, 1996

AVAILABLE: Library of Januares

1. Isobutylene-Polymerization

Cara 2/2

MESHCHERYAKOV, A.P.

AUTHORS: Mentical

mecheryanov, A. P., Petrova, L. V.

52-1-21/29

TITLE:

On the Synthesis of the meto Asias ros Monochloroanhydride Esters of bis mic Asias and slofting (Sintes ketokislot iz efirov monokulorangidridov dvinneshivny in kislot i olefinov)

PERIODICAL:

Izvestiya An J ... Otdeleniye ...ii.ic.eskith Hauk, 1993 Nr 1, pr 106 - 15; (US.R)

ABSTRACT:

of all methods for the production of keto-noics (references 1-4) the catalytic methods of synthesis deserve special attention. Especially those based on the alkane basis and of the anhydrides and chloroanhydrides of the mono- or dibasic acids. In the present paper the authors report that for the first time from corsent paper the authors report that for the first time from corsent paper the authors report that for the first time from corsent paper the authors report that for the first time from corsent paper the authors report that for the first time from corsent paper the authors report that for the first time from corsent paper the authors report that for the first time from corsent paper the authors and chloroanhydrides according to the catalylic method were synthetized: 1) 6-keto-7-decene acid; 2) 6-keto-8-honene-noid; 3) 6-keto-8-honene-noid; 4) 6-keto-8-honene-noid; 5) 7,7,8-trimethyl-6-keto-8-honene-noid; 6) 7,7, dodekane acid; 7) 6-keto-8-honene-noid; 7) 6-keto-8-honene-noid; 8) 7,7,7,8-honene-noid; 8) 7,7,7,8-honene-noid; 8) 8-keto-8-honene-noid; 8) 8-keto-8-honene-noid; 8) 8-keto-8-honene-noi

Card 1/2

On the Synthesis of the Acto Acto. 2.5 Monochloroanhydride Ester of Diomics alice in continu 62-1-11/29

AUDOCIATION:

institute of organic Shelistry identity D. Relinski, AS Judit

(Institut ...,anicheskey khimii i.. T. b. Belinsko, o A. L. di nauk book)

SJ3 .ITTEL:

July 18, 1757

AVAILABLE.

Library of Congress

1. Keto acids-Synthesis

Card 2/2

AUTHORS:

Meshcheryakov, A. P., Glukhovtsev, V.G.

62-59-6-25/37

TITLE:

The Synthesis of 1-Cyclopropyl-2-Cyclohexylcyclopropane

(Sintez 1-tsiklopropil-2-tsiklogeksiltsiklopropena)

PERIODICAL:

Izvestiya Akademii nauk SSSR, Otdeleniye khimicherkikh mank,

1958, Nr 6, pp. 780 - 783 (USSR)

ABSTRACT:

In the present paper the authors describe a method of synthetization which they worked out for 1-cyclopropyl-2-cyclohexylcyclopropane. Besides, the authors tried to obtain 1-cyclopropyl--2-hexylcyclopropane from " enantovoy"aldehyde (?) and met. 1cyclopropylketone under the same conditions. Instead of an a-octenylcyclopropyl ketone, tetradeceme-6-on-8 was, however, obtained. A new method of obtaining 5-chlorine-2-pentanone from acetopropylalcohol and hydrochloric acid was worked out. The condensation of methylcyclopropylketone under the action of catalysts (alcoholic KOH, C2H5 ONa, Ba(OH)2, Ba(OH)2, Na , NaOH.

KOH) was investigated. 2,4,6-tricyclopropyl-2,4 epoxyhexanon-6 was obtained. There are 7 references, 1 of which is Soviet.

Card 1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

The Synthesis of 1-Cyclopropyl-2-Cyclohexyloyclopropane 507/62-18-6-25150

ASSOCIATION: Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk

SSSR (Institute of Organic Chemistry imeni N.D. Zelinskiy, AS USSR)

SUBMITTED: Janua

January 21, 1958

1. Propanes--Synthesis 2. Ketones--Condensation 3. Alcohols --Chemical reactions 4. Hydrochloric acid--Chemical reactions

5, Catalysts--Performance

Card 2/2

MESHCHERYAKOV, A.P.; PETROVA, L.V.; YEGOROV, Yu.P.

Reactivity of L, \(\beta\) -unsaturated ketones and \(\beta\)-halogen ketones in Kizhner reactions. Zhur.ob.khim. 28 no.9:2588-2595 S '58.

(MIRA 11:11)

1. Institut organicheskoy khimii AN SSSR.

(Ketones)

MAKARENKOV, V.V.; MESHCHERYAKOV, A.P.; PANCHENKOV, G.M.; PLATE, A.F.;
SHUYKIN, N.I.; YAKOVLEYSKIT, V.V.

Biffect of the structure of individual hydrocarbons and ethers on their combustion rate. Izv. vys. ucheb. zav.: neft i gaz 2 no.4: 71-78 '59.

1.Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akad. I.M. Gubkina.

(Hydrocarbons) (Ethers) (Combustion)

5(4)

sov/62-59-8-26/42

AUTHORS:

Batuyev, M. I., Meshcheryakov, A. P., Matveyeva, A. D.

TITLE:

Raman Spectra of Divinyl Acetylene

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 8, pp 1485-1487 (USSR)

ABSTRACT:

The spectra were photographed by means of the spectrograph of the type ISP-51 with the Hg line (4358 A). The individual lines obtained for the compound CH2 = CH-C=C-CH=CH2 are given. Within

the range of the triple bond two basic frequencies (intensive

doublet) were obtained at 2165 and 2206 $\,\mathrm{cm}^{-1}$, and four

frequencies in the range of the double bonds (intensive doublet), at 1586, 1601 cm^{-1} , and two weaker lines at 1629 cm^{-1} . The appearance of the doublet is due to the possibility of the existence of rotatory isomers. The splitting-up of the frequencies of the double bonds is interpreted as the splitting of the frequency of the bond oscillations of two identical double bonds in each of the two possible isomers. The great number of lines (44 as against 30 in the case of one form only) is

Card 1/3

considered to point to the probable existence of both isomers.

Raman Spectra of Divinyl Acetylene

SOV/62-59-8-26/42

The multiple bonds must, according to the energy minimum of the bond system, lie in one plane. On this condition the two isomers (the cis (I) and trans forms (II)) are possible. The authors continue by attributing the several lines obtained to the two isomers by means of comparing them with the infrared spectrum. The lines are also interpreted as resulting from the mutual influence of double bond - triple bond and double bond - double bond. A table lists the frequencies of the oscillations of the individual bond types. It follows that the triple bond in (I) with a high electron density corresponds to a pair of double bonds with a reduced electron density, while the triple bond in (II) with a reduced electron density corresponds to a pair of double bonds with a high electron density. The electron shells of the C atoms of the triple bond in (I) are more asymmetrical than in (II) so that there is a greater influence of this bond upon the double bonds in (I) than there is in (II). In the liquid

Card 2/3

Raman Spectra of Divinyl Acetylene

sov/62-59-8-26/42

phase both isomeric forms are encountered; however, there is a

marked preponderance of the trans form. There are 1 table and

9 references, 4 of which are Soviet.

ASSO(IATION: Institut ' goryuchikh iskopayemykh ; Institut organicheskoy

khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of of Organic Chemistry imeni Institute

Fuels; Mineral

N. D. Zelinskiy of the Academy of Sciences, USSR)

January 21, 1959 SUBMITTED:

Card 3/3

CIA-RDP86-00513R001033 APPROVED FOR RELEASE: Wednesday, June 21, 2000

5 (3) AUTHORS: Meshcheryakov, A. P., Glukhovtsev, V. G. SOV/62-59-8-28/42

TITLE:

Preparative Method for the Synthesis of Methylcyclopropylketone

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk; 1959, Nr 8, pp 1490-1492 (USSR)

ABSTRACT:

First of all a survey of the development of the preparative method for the above mentioned compound is given and the following Soviet scientists are cited: Idz'kovskaya and Vegner (Ref 11), Dem'yanov and Pinegin (Ref 12), Rozanov (Ref 15), Slobodin and Shokhor (Ref 16), Zelinskiy and Den'gin (Ref 18). D'yakonov (Ref 19). Acetopropylchloride was synthesized as the initial product for the ensuing synthesis of methylcyclopropylketone. In the course of this process the method used up to now could be improved so as to permit a yield of 76% instead of 64%. Methylcyclopropylketone was obtained from acetylchloride and caustic potash with a yield of 95% compared to the maximum yield of 76% which has so far been obtained. A description of the syntheses and the physical data of the materials obtained are given in the experimental part. There are 27 references, 11 of which are Soviet.

Card 1/2

CIA-RDP86-00513R001033 APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033 "APPROVED FOR RELEASE: Wednesday, June 21, 2000

Preparative Method for the Synthesis of Methyl-

SOV/62-59-8-28/42

cyclopropylketone

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk

SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy,

Academy of Sciences, USSR)

SUBMITTED:

February 9, 1959

Card 2/2

5:3400

77088 sov/62-59-12-32/43

AUTHORS:

TITLE:

Freydlin, L. Kh., Meshcheryakov, A. P., Gorshkov,

V. I., and Glukhovtsev, V. G.

Brief Communication. Selective Reduction of Methyl Cyclopropyl Ketone Over the Zinc Catalysts

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 12, pp 2237-2239 (USSR)

ABSTRACT:

In catalytic reduction of methyl cyclopropyl ketone, two groups can be reduced: the carbonyl

group and the trimethylene ring:

CH₃ CH (OH) · CH CH₂ CH₃ · CH (OH) · CH₂ · CH₃ · CH₃ cH₃-Co CH CH₂ CH₃ CO CH₂ CH₂ CH₃

card 1/3

The authors have found that Zn and Zn-Cu catalysts

OR RELEASE: Wednesday, June 21, 2000

CIA, RDP86-00513RQ0103 sov/62-59-12-32/43

Brief Communication. Selective Reduction of Methyl Cyclopropyl Ketone Over the Zinc Catalysts

(in the temperature interval $80-160^{\circ}$ and 130 atm

pressure) cause selective reduction of the carbonyl group, according to path (I) of the above equation, while Cu catalysts first cause (at 80°) hydrogenation of the trimethylene ring (path III).
2-Pentanol is formed above 1250. This behavior of 2-Pentanol is formed above 125°. This behavior of methyl cyclopropyl ketone during catalytic reduction is similar to the reduction of a, and aldehydes). There are 2 figures; ketones (and aldehydes). There are 2 figures; tables; and 10 references, 7 Soviet, 3 U.S. The 2 tables; and 10 references, 7 Soviet, 3 U.S. The 2 tables; and 10 references, 7 Soviet, 3 U.S. The 2 tables; and 10 references, 7 Soviet, 3 U.S. The 2 tables; and 10 references, 7 Soviet, 3 U.S. The 2 tables; and 10 references, 7 Soviet, 3 U.S. The 2 tables; and 10 references, 7 Soviet, 3 U.S. The 2 tables; and 10 references, 7 Soviet, 3 U.S. The 2 tables; and 10 references, 7 Soviet, 3 U.S. The 2 tables, J. W. S. Pat. Wise, J. Wise, J. Wise, J. Wise, J. W. Wise, J. Spitcher, J. M. Derfer, C. E. Boord, J. Am. Chem. Soc., 71, 3595 (1949); W. F. Bruce, G. Mueller, Chem. Soc., 71, 3595 (1949); W. F. Bruce, G. Mueller, J. Seifter, J. L. Szabo, U. S. Pat. 2494084, Chem. Abstr., 45, 177 (1951).

ASSOCIATION:

N. D. Zelinskiy Institute of Organic Chemistry of the Academy of Sciences, USSR (Institut organicheskoy

Card 2/3

Brief Communication. Selective Reduction of

77088

Methyl Cyclopropyl Ketone Over the Zinc

SOV/62-59-12-32/43

Catalysts

khimii imeni N. D. Zelinskogo Akademii nauk SSSR)

SUBMITTED:

May 4, 1959

Card 3/3

5(3) AUTHORS:	Meshcheryakov, A. F., Erzyutova, Ye. 1. SCV/20-124-4-27/67
TITLE:	Synthesis of 2,4,4-Trimetayl-3-Tert-Butyl Fentene-2 (Sintez 2,4,4-trimetil-3-tretichnobutilpentena-2). (of the β -Form of Butlerov's Triisobutylene) (β -formy triizobutilena Butlerov
PERIODICAL:	Doklady Akademii nauk SSSR, 1959. Vol 124, Nr 4, pp 826-829 (USSR)
ABSTRACT:	A. M. Butlerov (Ref 1) ascribed the structure of the above-mentioned compound to the triscoutylene that was synthesized by him for the first time. Later on, other scientists proved that triisobutylene is a mixture of 4 isomers (Refs 2-4, etc. T. us, the problem of the form referred to in the subtitle has not yet been solved. It was interesting therefore to find the ways of synthesizing this hydrocarbon and to study its properties. Buch a way was shown by the dehydration of di-tert-butyl isopropyl parbinol. The authors found that therein the primary dehydration is isomerized in acid medium in this case, the double bond is shifted from the \$\mathcal{B}\$ - toward an \$\mathcal{A}\$ -position and the skeleton of the synthesized alkene is changed. The dehydration processes performed by the authors 1) according to Zigler (Tsigler, Ref 5), 2) on the action of
Card $1/2$	1) according to Zigler (Isigler, Ref)), 2) on the double of

30V/20-124-4-27/67 Synthesis of 2,4,4-Trimethyl-3-Tert-Butyl Pentene-2 (of the \$\beta\$-Form of Butlerov's Triiscoutylene) HCl at -30° and 3) by way of A_{-2}° 0, at 220° invariably led to the formation of a mixture of α -alkenes exclusively (primarily 3,3,4,4-tetramethy1-2-isogropy1 pentere-1, 2,4,4-trimethyl-3-tert-butyl pentene-1, as well as possibly 3,4,4-trimethyl-2-tert-butyl pentene-1). In order to remove the skeleton isomerization, the authors applied L. A. Chugayer's method of xanthation (Ref o). Even in this case, however, they could synthesize for the first time, on the dehydration of di-tert-butyl isopropyl carbinol, the ordinary dehydration product mentioned in the title, in addition to the isomers (II), (III) and (IV). On the exidation abetone and hexamethy. acetone were isolated. There are 9 references, 5 of which are Scviet. Institut organicheskov khimii iv. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinski) ASSOCIATIO: of the Academy of Sciences, USSR) July 28, 1958, by A. A. Balandin, Academician PRESENTED: July 17, 1958 SUBMITTED Card 2/2

5 (3) : NOHTUA Meshcheryskov A. P.

SOV/20-128-1-25/58

TITLE:

Density and Families of Isoalkanes

PERIODICAL:

Doklady Akademii nauk SSSR; 1959, Vol 128; Nr 1 pp 95 98 (USSR)

ABSTRACT:

The data computed by the author by a method by Tatevskiy (Ref 13), the experimental data (Refs 7.10) and the data calculated by Francis (Ref 12) served for plotting a diagram of the increase in the density of isoalkanes with the composition C6-C20 (Fig 1). Iscalkanes of the kind

and $R^{+} \sim \frac{1}{C} \left(-\frac{1}{C} - \frac{1}{C} \right) n - \frac{1}{C} \sim R^{+}$

have the highest density. Isoalkane groups with the same number of different subtypes of atomic linkages but of different structure are known as families of isoalkanes. By computing of the density of one of the family members, the density of any other member of the respective family can be found with correctness to three significant figures. With increasing molecular weight, the number of families increases, and at a higher branching degree of the alkane molecule the density of

Card 1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

Density and Families of Iscalkanes

SOV/20-128-1-25/58

any isomer gradually grows until a maximum is attained. Contrary to the lower alkanes $C_7H_{16}\cdots C_8H_{18}$ each of which contains

an isomer with a maximum density, the higher alkanes exhibit whole alkane families with a maximum or approximatively maximum density. Proceeding from an investigation of chemical structural formulas of all members of the alkane family the formerly mentioned fact allows for a selection of the hydrocarbon the synthesis of which allows for a selection of the hydrocarbon the synthesis of which requires that smallest steric hindrances isomerization phenomena, and dissociation of initial compounds be surmounted. The term and dissociation of initial compounds be surmounted from groups family may also be used for classifying other hydrocarbon groups particularly of highest isoalkanes; acetylene hydrocarbons etc. There are 1 figure and 21 references 10 of which are Soviet.

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskog. Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences USSR)

PRESENTED:

April 10, 1959, by B. A. Kazanskiy. Academician

SUBMITTED:

April 9: 1959

card 2/2

AUTHORS: Meanshorm and Authority to an advantage of the following the fo

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Reactivity of Arkenes, Ammonths, and Asti-Chlorides in Relation to Their Street of Table 3. 3 2 rate CH. 4 ch, chach, 67.0 $c_{H_{\mathfrak{p}}} \cdot c_{H_{\mathfrak{p}} \cdots c_{H_{r}}} \cdot H_{r} \cdot H_{r}$ 170-0 th, CHI=CH, CHI=CH H, 44.0 en, collect, 82.4 Key to Parle 7. (.) Charafactorum, muut (.) eseth + artichentorum – fomonoethyi estem – fomologi estem – fo There same you as the part of the ferroman, a Borist, a Francis, as the standard, b U.S. 1 M.K. The set U.S. and M.K. meters are the standard of the part of the standard of t Card 4/2

Reaptivity of Alkened. Arryleles of a 11 - Onlorides in Relation to Toole Structure

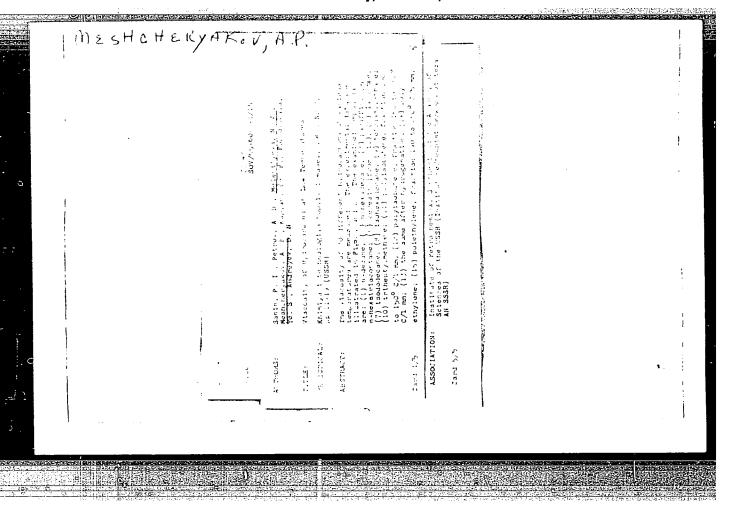
N. D. Zelinokiy Is titute in Organia Gramistry of the Academy of Saint education USSF in titut organizmeskey ASSOCIATION:

khimii imeni N. D. Zelinowigo ekudemii nauk ŠSSR'

SUBMITTED: May 26. 195

Card 5/5

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001033



MESHCHERYAKOV, A.P.; DOLGIY, I.Ye.

Reaction of alkenes with diazoacetic ester in the presence of the catalyst CuSO_h. Izv.AN SSSR Otd.khim.nauk no.5:931-934

ky '60.

1. Institut organicheskoy khimii imeni N.D.Zelinskogo Akademii nauk SSSR.

(Copper sulfate) (Olefins) (Acetic acid)

MESHCHERYAKOV, A.P.

Synthesis of peroxides based on isobutylene. Sbor. nauch. rab. Inst. fizeorg. khim. AN BSSR no.8:3-12 *60. (MIRA 14:3)

1. Enstitut organicheakov khimit im. N.D. Zelinskogo AN SSSR. (Butyl peroxide) (Propane)

MESHCHERYAKOV, A.P.; DOLGIY, I.Ye.

Effect of the temperature on the reaction of alkenes with ethyl diazoacetate in the presence of copper sulfate acting as a catalyst. Izv. An SSSR Otd. khim. nauk no.10:1874-1876 O '60. (MIRA 13:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk SSSR.

(Olefins) (Acetic acid) (Copper sulfate)

MESHCHERYAKOV, A.P.; GLUKHOVTSEV, V.G.

Vinyl ethers of methyl- and dimethylcyclopropylcarbinols. Izv.

AN SSSR.Otd. khim. nauk no.11:2042-2043 N '6C. (MIRA 13:11)

1. Institut organicheskoy khimii im.N.D.Lelinskogo AN SSSR (Ethers)

5.4700

S/020/60/132/01/31/064 B011/B126

AUTHORS:

Kachinskaya, O. N., Togoyeva, S. Kh., Meshcheryakov, A. P.,

Skuratov, S. M.

TITLE:

Heats of Combustion of 1,1-Dimethyl-2-alkyl Cyclopropanes

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 1, pp. 119-122

TEXT: The heats mentioned in the title were measured in the liquid phase. The authors give calculation formulas for all compounds of the above-mentioned homologous series. Temperature determination methods are described in Ref. 7. The substances analyzed were synthesized by the methods given in Ref. 8. They contained (according to Raman spectra) no alkenes. The authors analyzed 1,1-dimethyl-2-ethyl cyclopropane, 1,1-dimethyl-2-propyl cyclopropane, and 1,1-dimethyl-2-n-hexyl cyclopropane. Table 1 shows the heats of combustion of these compounds after 2 final distillations. From this it can be seen that their heat of combustion has not changed after the last distillation. By using the additive method concerning types and sub-divisions according to the hypothesis of V. M. Tatevskiy (Refs. 1, 2), the authors derive the general formula for calculating the said heats (1). For 1,1-dimethyl-2-n-alkyl cyclopropane (alkyl - any

Card 1/3

Heats of Combustion of 1,1-Dimethyl-2-alkyl Cyclopropanes

S/020/60/132/01/31/064 B011/B126

radical, from ethyl on, that is, when $n \geqslant 7$) the equation (1) assumes the form of (2). From the values of the heats of combustion of 1,1-dimethyl-2-ethyl- and 1,1-dimethyl-2-hexyl cyclopropanes and from the ascertained value A22 (156.23 kcal/mole), the heats of combustion of 1,1-dimethyl-2-propyl-, 1,1-dimethyl-2-n-butyl-, and 1,1-dimethyl-2-n-amyl cyclopropane were calculated. These heats $(-\Delta H_c^0)$ and the heats of formation $(-\Delta H_f^0)$ are set out in table 3. As can be seen from the given data, the calculated and the experimentally obtained heats of combustion agree. Concerning the stressed three- and four-membered rings the question still remained open, as to whether such a ring influences the properties of the side chains. It follows from the data given here that the cyclopropane ring does not influence the character of the bonds in the substituting alkyl, from ethyl on. This conclusion can apparently also be extended to alkylcyclobutane compounds. Thus, the heats of combustion of compounds of the 1,1-dimethyl-2-n-alkyl cyclopropane (n-alkylethyl and higher substituents) series can be calculated from equation (3). Equation (4) has the same object. From the heats of combustion of 1,1-dimethyl-2-ethyl-, 1,1-dimethyl-2-n-propyl-, and 1,1-dimethyl-2-n-hexyl cyclopropanes, as well as from the values of A22 (see

Card 2/3

Heats of Combustion of 1,1-Dimethyl-2-alkyl Cyclopropanes

S/020/60/132/01/31/064 B011/B126

above) and A_{21} (=263.238 kcal/mole) which are given in publications, the authors calculated the increment c' which occurs in equations (1) and (2). It was shown that c = 851.74 kcal/mole. The values of c' calculated for $-\Delta H_f$, R_M , and V_M are shown in table 2. It has now become possible to work out the heats of

are shown in table 2. It has now become possible to work out the heats of combustion not only for normal, but also for (from the second C-atom in the alkyl radical on) branched 1,1-dimethyl-2-alkyl cyclopropanes. In this case equation (1) assumes the form of equation (5). The value of the coefficients A, for the C-C bonds of different sub-types of branched alkanes can be taken from publications (Ref. 1). There are 3 tables and 8 references, 5 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED: December 22, 1959, by A. N. Nesmeyanov, Academician

SUBMITTED: December 16, 1959

Card 3/3

MESHCHERYAKOV, A.P.; PETROVA, L.V.; GLUKHOVTSEV, V.C.

Synthesis of di-, tri-, and tetrasubstituted cyclopropane hydrocarbons by the Kishner reaction. Izv. AN SSSR. Otd. khim. nauk no. 1:114-119 Ja '61. (MIRA 14:2)

1. Insitut organicheskoy khimii im. M.D. Zelinskogo AN SSSR. (Cyclopropane)

MESHCHERYAKOV, A.P.; DOLGIY, I.Ye.

Synthesis of dimethylalkyleyclopropylcarbinols and methyl alkyleyclopropyl ketones. Izv.AN SSSR Otd.khim.nauk no.3:496-501 Mr '61. (MIRA 14:4)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo Akademii nauk SSSR.

(Methanol) (Ketones)

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AUTHORS: Shostakovskiy, M. F., Gracheva, Ye. P., Meshcheryakov, A. P.,

and Glukhovtsev, V. G.

TITLE: Polymerization of the vinyl ether of methyl cyclopropyl

carbinol

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 5, 1961, 924 - 927

TEXT: In Ref. 1 (B. A. Zakharov et al., Dokl. ANSSSR, 122, no. 5, 814 (1958)), it has been stated that the double bond of the vinyl ethers has an increased nucleophilic character which manifests itself in various addition reactions, transformations, and especially in the polymerization reaction. For the study of the conditions of polymerization of the compounds CH₂ = CHOR (I), the vinyl ether of methyl cyclopropyl carbinol is of special interest:

 $CH_2 = CH-O-CH-CH$ CH_2 CH_2 CH_2 (II).

According to the rule of Markovnikov, the cyclopropyl group of this ether, Card 1/3

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Polymerization of the...

as possible carrier of the propenyl group, is able to add various polar compounds. Moreover, this ether may be of interest as test substance for the synthesis of different polymers in the polymerization and copolymerization reactions. The present paper describes the polymerization of the vinyl ether of methyl cyclopropyl carbinol in the presence of the initiators FeCl, and azonitrile isobutyric acid under optimum conditions for the polymerization of the vinyl alkyl ethers. It has been found that compound (II) shows higher reactivity during polymerization in the presence of a 5 % solution of iron perchlorace (in dioxane) than vinyl alkyl ethers (I) under the same conditions. First of all, this is evident from the fact that the polymerization of the ether (II) begins at O°C and the highest yield in polymer is obtained at a temperature of -17 to -20°C whereas other vinyl alkyl ethers polymerize at boiling temperature only. The reason for such diverging temperatures of polymerization is the different stability of the ozonium complexes of these compounds (I, II):

cozonium complexes of these compounds (1, CH₂) CH₂ CH₂ (IV)

(III) CH₂ = CH-OR CH₂ = CH-O-CH-CH (IV)

(IV)

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Polymerization of the...

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Evidently, complex (IV) is of lower stability; its decomposition is effected at a low temperature resulting also in the formation of a polymer at lower temperature. The use of azonitrile isobutyric acid as initiator instead of FeCl 3 did not give any results. There are 3 Soviet-bloc references.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry im. N. D. Zelinskiy, Academy of Sciences USSR)

SUBMITTED: October 12, 1960

Card 3/3

X

MESHCHERYAKOV, A.P.; GLUKHOVTSEV, V.G.; LEMIN, N.N.

1-Cyclopropyl-2-\(\alpha\)-furylcyclopropane and its transformations.

Izv.AN SSSR.Otd.khim.nauk no.10:1901-1903 O *61. (MIRA 14:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Cyclopropane).

MESHCHERYAKOV, A.P.; ERZYUTOVA, Ye.I.; GO CHUN'-I [Kuo Ch'un-i]

Catalytic synthesis of isoparaffin hydrocarbons of the composition

C20 - C33 of high density. Izv. AN SSSR Otd.khim.nauk no.12:2198-2203 D '61.

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Paraffins)

MESHCHERYAKOV. A.P., GLUKHOVTSEV, V.G.

Preparation of 1-cyclopropyl-2-(butanone-1'-ol-4')cyclopropane. Izv. AN SSSR Otd.khim.nauk no.12:2248-2250 D '61. (MIRA 14:11)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Cyclopropane)

MESHCHERYAKOV, A.P.; PETROVA, L.V.

Synthesis of 3,3,4-trimethyl-1-pentyne and 2,3,3,8,8,9-hexamethyl-4,
6-decadiyne. Izv. AN SSR Otd.khim.nauk no.12:2250-2252 D 61.

 Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Pentyne) (Decadyine)

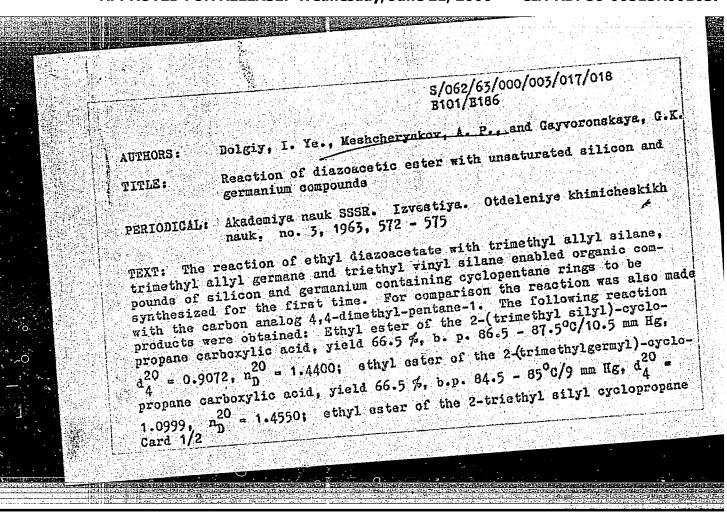
(MIRA 14:11)

MESHCHERYAKOV, A.P.; LOLGIY, I.Ye.

Synthesis of certain compounds having two adjacent threemembered rings. Dokl. AN SSSR 139 no.6:1379-1382 Ag '61. (MIRA 14:8)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
Predstavleno akademikom B.A. Arbuzovym.
(Gyclic compounds)

MESHCHERYAKOV, A.P.; GLUKHOVTSEV, V.G. Synthesis of 1,3-dicyclopropyl-2-butene-1-one. Izv. an SSSR Utd.khim.nauk no.1:176-178 Ja '62. (KIRA 1,:1) khim.nauk no.1:176-178 ja '62. 1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Ketone) (Cyclopropane)



Reaction of	5/062/63/000/003/017/018 diazoacetic ester with B101/B186
carboxylic e	eid, yield 42 %, b.p. 110° C/11 nm Hg, $d_A^{20} = 0.9214$, $n_D^{20} =$
1.4543 and e	thyl ester of the 2-neopentyl cyclopropane carboxylic acid b.p. 85 - 86° C/15 mm Hg, $d_4^{20} = 0.9054$, $n_D^{20} = 1.4342$, Ther
- ASSOCIATION:	Institut organicheskoy khimii im. N. D. Zelinskogo Akade nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences USSR)
submitted:	October 31, 1962
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